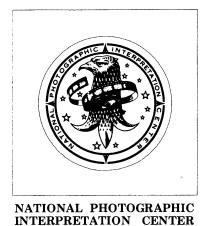
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Basic Imagery Interpretation Report

PRAHA AIRFRAME PLANT VODOCHODY LETOV (S)

25X1

STRATEGIC WEAPONS INDUSTRIAL FACILITIES
CZECHOSLOVAKIA
JULY 1979

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25**X**1

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NISTALLATION	N/ITV NIA · · F				COUNTRY	_
installation or acti Praha Airfram		hody Letov				
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MAP REFERENCE DMA. USATC	, Series 200, S	Sheet 0231-15,	scale 1:200,000			
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			ABSTRACT			-
Vodochody Le this target. Or consisted of 10 116,230 square 2. (S/WI chody Letov, a repair, and air two annotated the plant and	tov, Czechoslo n 22 buildings a meters of usa NINTEL) Thi discussion of craft modifica photographs, aircraft observa	provides an invakia, and sum the day and structures able floorspaces report inclusion activities a table of meyations.	nitial NPIC basic desibstantially satisfies to the latest image (72 of which are const.) des a basic description developments, and a seat the plant. This rensural and chronological	he basic reporting rery used in this residered significant) on of Praha Airfrantsummary of product port also contains a cal data, and a charactery of the contains a cal data, and a charactery of the contains a cal data, and a charactery of the contains a cal data, and a charactery of the contains a call data, and a charactery of the contains a call data, and a charactery of the contains a call data, and a charactery of the contains a call data, and a charactery of the contains a call data.	requirement for port, the plant and contained me Plant Vodotion, assembly, a location map, rt of activity at	2
3. (S/WI also described		•	ody Airfield, the test	and flyaway field fo	or the plant, is	
		IN	FRODUCTION			
4. (S/WNINTEL) Praha Airframe Plant Vodochody Letov, Czechoslovakia (Figure 1), has an area of approximately 49 hectares and is 8.3 nautical miles northwest of the city of Praha (Prague), on the north side of Klecany/Vodochody Airfield						
plant.		DAGI	C DECODIDATON			
which 72 are cings (items 51 assembly build 11). Other significant weaps control building tenance building three transships of the state of the stat	onsidered sign, 52, 67, and ding (item 35 nificant build ons ballistics ag and pumphing, a steam/lipment buildipole.	ame Plant Vocatificant. Major 72, Table 1), an assembly ings/structure test building louse), an enguesting plant, ngs, two vehi	dochody Letov contains structures (Figure 3), two engineering but building (item 48), as include a checkout, an open-air engine ine run-up building, a carpentry shop, a cle storage buildings are storage facility, a restrict of the contains a carpentry shop, a cle storage facility, a restrict of the contains a carpentry shop, a cle storage facility, a restrict of the contains a carpentry shop, a cle storage facility, a restrict of the contains a carpentry shop, a cle storage facility, a restrict of the contains a carpentry shop, a cle storage facility, a restrict of the contains a carpentry shop.	include four admin ildings (items 54 a and a subassembly paint hangar, a rep test facility (with even shop buildings rail service/mainter an apprentice scl	istration build- nd 63), a final building (item pair hangar, an an associated s, a shop/main- nance building, nool¹ (items 17	
7. (TSR) contained app this floorspace	roximately 11	6,230 square	the information cuto meters of usable floor			
:	Function		Floorspace (sq m)			
Fabr Dire	inistration/en ication/assem et support eral support/st Total floors	bly/repair corage	26,764 45,061 19,283 25,122 116,230			
			- 1 -			2
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- 8. (TSR) Klecany/Vodochody Airfield (Figure 2) consists of a 2,500- by 52-meter, east-southeast/west-northwest, serviceable concrete runway; a parallel concrete taxiway; a concrete end-connecting link; a concrete crossover link; two concrete parking aprons; a concrete loop turnaround; a compass rose (Figure 3); a control tower; and extensive electronic equipment.
- 9. (TSR) Electronics equipment observed at the airfield on included OR-2 and RP-2 ground-control approach (GCA) radars, a TALL PATH glidescope transmitter, a THIN PATH localizer, HAY-series instrument landing system (ILS), air-to-ground communications, and an inner marker beacon.

Chronological Development

- 10. (S/WNINTEL) The earliest usable imagery of Praha Airframe Plant Vodochody Letov was aircraft (TALENT) photography of _______ Because of the poor image quality, however, only two buildings could be discerned, the final assembly building (item 35) and the repair hangar (item 68). On _______ the date of the first usable satellite coverage of Vodochody, the plant contained 48 buildings and structures with a combined usable floorspace of 99,705 square meters. These buildings and structures included three administration buildings (items 51, 67, and 72), an engineering building (item 63), the final assembly building (item 35), the assembly building (item 48), and the subassembly building (item 11).
- 11. (S/WNINTEL) Construction between (Figure 3) resulted in a net increase of 12,171 square meters, bringing the total floorspace to 111,876 square meters. Fifty buildings were constructed during this period, including 20 which are considered significant; of these significant buildings, none were directly related to production activity. Other construction included the addition of an engineering section (item 63b) and a storage section (item 32b).

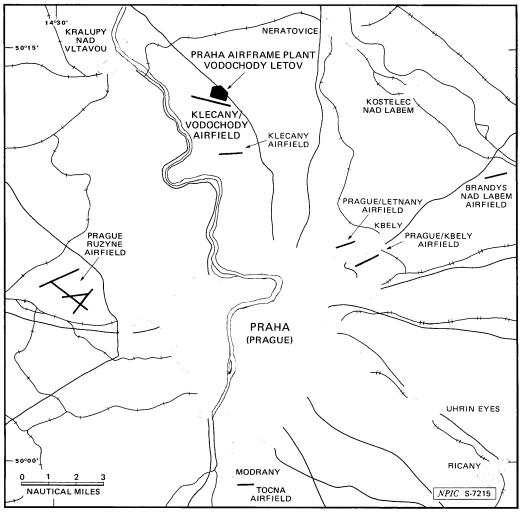


FIGURE 1. LOCATION OF PRAHA AIRFRAME PLANT VODOCHODY LETOV, CZECHOSLOVAKIA

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12. (TSR) Construction between resulted in a net increase of 4,354 square meters of floorspace, bringing the total to the current 116,230 square meters. Four buildings were constructed during this period: an administration building (item 52), an engineering building (item 54), and two storage buildings (items 12 and 53). Additionally, three storage building sections (items 34b, 58a, and 66a) were added and the roofs of five buildings (items 4, 11, 25, 36, and 39) were refurbished.	25X1
Plant Activity*	
Production	,
13. (S/WNINTEL) Prior to Vodochody was involved in the licensed production of MiG-15 (FAGOT) and MiG-17 (FRESCO) aircraft (Figure 4). Production of the FAGOT began in early 1954 and ended in early 1959. FRESCO production began in early 1960 and ended in early 1963. The number of FAGOT and FRESCO aircraft produced at Vodochody is unknown; one FAGOT and one FRESCO were seen at the plant on long after production had ceased.	25X1 , 25X1
14. (TSR) Production of the L-29 Delfin (MAYA), a twin-seat primary jet-flight trainer, probably began in early 1964² and as many as 20 MAYAs per month may have been produced at Vodochody through 1972.³ MAYA production slackened between 1973 and 1975; by late 1975 the program had terminated.³ However, observations of MAYA aircraft at the plant (Figure 4) since late 1975 suggest that some refit/repair activity may be taking place. The MAYA, which serves as the basic jet trainer for all Warsaw Pact countries except Poland,⁴ was also produced at Kunovice Airframe Plant By mid-1976, the two plants may have produced as many as 3,840 MAYAs.³	25X1
15. (S/WNINTEL) Two other MAYA versions were produced in a limited quantity; a single-seat aerobatic model (designated L-29A Akrobat), and a single-seat reconnaissance/counter-insurgency model with nose cameras and underwing weapons stores (designated L-29R). One L-29A was observed at the plant on The L-29R, which has been exported to Iraq and possibly other Middle East countries, has not been identified at the plant because of the lack of high-resolution coverage.	25X1 ,
16. (TSR) In early 1970 Praha Airframe Plant Vodochody Letov began production of the L-39 ALBATROS, a twin-seat jet-flight trainer, which was designed and built to meet criteria and specifications provided by Czechoslovakia's best customer, the Soviet Union. Thus, the L-39 was designed to function as both a primary/advanced flight trainer (to replace some MAYAs in the Soviet inventory) and as a light attack aircraft. Soviet specifications called for a flight envelope consisting of a speed capability of 0.8 mach and gravity loads of 7.0 positive and 3.5 negative. The gravity goals were evidently surpassed, however, since current estimates suggest that loads of 8.0 positive and 4.0 negative are possible. L-39 observations at the plant (Figure 4) suggest that full-series production of this aircraft had begun by early 1973. As many as 920 L-39s may have been produced by mid-1978. The light attack version of the L-39, probably designated the L-39D, which features underwing pylon-mounted machine guns and rocket launchers, has probably been exported to several Third World countries (as well as the Soviet Union) but has never been photographically confirmed at the plant, because of limited high-resolution coverage. 17. (TSR) Vodochody has also produced, and may still be producing, an unidentified directional communications antenna, telescopic antenna masts, casings for radio sets, and MiG-21 (FISHBED) external fuel tanks. The latter have been observed at the plant on several occasions	
in the vicinity of a storage building (item 13, Figure 3) in the south-central plant area.	
Aircraft Assembly	,
18. (TSR) Licensed assembly of the Soviet MiG-21 (FISHBED) and Su-7 (FITTER) probably began at Vodochody in late 1968 and ended by late 1973. ^{2,7} A small number of FISHBEDs were probably also repaired between 1966 and 1968. ⁸ FISHBEDs were first observed at the plant on(Figure 4), and a total of seven had been seen by The first FITTER aircraft was observed at the plant on a total of eight had been seen.	25X1 25X1
Aircraft Repair and Modification	
19. (S/WNINTEL) The repair of Soviet-built MiG-19 (FARMER) aircraft probably began at the plant by early 1966° and ended by mid-1971. The Czechoslovakian Air Force (CAF) requires *Because of limited photographic coverage (17 coverages between extensive use was made of collateral information in determining activity levels at the plant.	25X1
was made of conaceral information in determining activity levels at the plant.	

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Table 1. Structures, Dimensions, and Construction Chronology, Praha Airframe Plant Vodochody Letov (Items keyed to Figure 3) This table is no sentent in dissible TOP SCERT RUTT

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Item	Description	Dimensions*	Total Floorspace (sq mi	Date Observed Complete	Remarks	Item	Description	Dimensions*	Total Floorspace (sq m)	Date Observed Complete	Remarks
	Arcreft weapons ballistics	- w -				36	Shop bldg	. " "			
1	test bido						Shop sect				Roof refurbished by
	Weapons fining sect				Firing bay in center	b	Engr sect				
b	Ergr sect					37	Shop blog				20 roof vents, open storage area A overhead traveling crans
E	Engr sect										mmediately W
đ	Inter target sect					18	Set bide				inneducely w
	Monitoring sect					38	Shop bidg				3 roof morntors added
1	Outer target sect Mondaning sect					39	Shop drug				between
	Sat sect										
	Stor sect					40	Stor tidg				
2	Fumphouse				Mounded PDL tank immediately	41	Shop bldg				
					NE supports engine test area	42	Stor tridg				First observed uton
3	Control bidg				Supports engine test area with 2 ones ar test stands	43	Checkout/paint hanger Paint sect				
					Roof refurbished between		Mant sect				
4	Stor bidg				NOT THE DESIRED DESIRED		Checkout sect				
5	Stor blide						Soor sect				
6	Stor bido					44	Stor bidg				Pus
7	Stor bkig					45	Stor bidg				
8	Stor bldg				In separately secured open storage	46	Pumphouse				Mounded water tank immedi- arely E
					area with item 9	1					ately t
9	Stor bldg				In separately secured open storage	47	Stor bldg Assembly bldg				
					area with item 8 In separately secured storage area	48	Assembly blog Assembly sect				Separately fence-secured open
10	Pumphouse				containing an unknown number		Planting sect				storage area immediately W
					of buried POL tanks	ь	Spt sect				
11	Subsessembly birds					49	Stor bidg				Supports coal yard
	Subassembly sect				Roof moneors on S half of blog	50	Steem/heat plant				Coal yard with overhead traveling
-					refurbished between						crane immediately W
					those on N helf	51	Admin bldg				
					refurbished between		Mess sect				2 5901/05
	Assembly sert					1 :	See sect				
ь	Assembly sett Shop sect				4 cehaust stacks on N side	52	Admin bilde				3 stones, first observed ucon
	Engrased				2 stones	l .					
	Admin sect				2 stones	53	Snor blidg				
- 7	Engraect				2 stones	94	Engr bildg				2 stones, first observed ucon replaced mounded
9	Admin sect				3 stones	l					water tank
12	Snor bidg				First observed upon	55	Stor bidg				First observed uppn
					open wided Numerous acft wing tanks	55	Stor 190g				replaced small shed '
13	Stor blog				observed near bidg	56	Stor bidg				
14	Ster bida				Tence-secured open storage	57	Stor tidg				
	Site only				area on Wiside	58	Stor bidg				
15	Stor bido						Stor sect				
16	Stor tidg					D.	Stor sect				
17	Classroom bidg				Part of apprentice school	59	Stor bidg				
18	Workshop				Part of apprentice school: Part of apprentice school.	60	Shop/maint blidg Maint sect				
19	Stor/spt bldg				connected by covered passage	, b	Shop sect				
					way to nem 20	e e	Maint sect				
20	Workshop				Part of apprentice school.	61	Rail service/maint blog				Rail through
					connected by covered passage	62	Stor bidg				
					may to ram 19	63	Engr tidg				
21	Workshop				Part of apprentice school	11 3	Engrased				Includes small 2-story
22	Stor bidg Set sect				Open storage area immediately S	b	Engrisett				subsection
	Spt sect Stor sect					64	Stor tridg				
23	Transationment bidg				Rail-leading dock immediately \$	65	Stor bide				In separately wall secured storage
24	Transstroment bidg				Open storage area immediately W	11 '					area which also contains 27
25	Transshipment bldg				First observed ucon	II					small huts
					roof refurbished between	66	Stor bldg				
						0	Stor sect Stor sect				
26	Stor blidg				First observed ucon supports separately ferce-	a7 b	Stor sect Admen bids				
					supports separately tende- secured open storage area	ll",	Admin sect				2 stones
					in mediately W	1 6	Veh stor sect				
27	Carnestry shop						Firehouse sect				Part 4 stones
28	Shop bide				4 roof vents	68	Report hangar				
29	Shop bldg						Repair sect				10 honger boys with alternate control tower I90 square meteral
30	Shop bldg					Π.					Preside tower 120 addance unapper
31	Stor bidg					b	Ope sect Mart sect				
	Spt sect					69	Mark sect Engine run-up bldg				2 run up beys, each with blow-
32 5	Stor sect Stor bids					1100	College country and				out panel on roof
32	Stor tring Stor sect					70	Vehicle stor bldg				L-shaped
ь	Sto: sect				Ficorspace includes	71	Vehicle stor bldg				C-shaped
					m annex	72	Admin bidg				4 stones
33	Stor bldg						Admin sect				4 stones Drive-through entrance
34	Stor bidg					ь .	Security sett Unnumbered bidgs (30)				Small spt bidgs
	Stor sect					11	Unitempered blogs (30)				
35 35	Stor sect Final assembly bldg					II					
35	Final assembly sect				Height at highest point	11					
	Engrisett				2 stones	II					
	Engr sect				2 stories	11					
						-					

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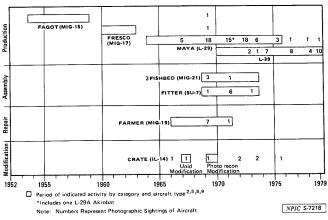
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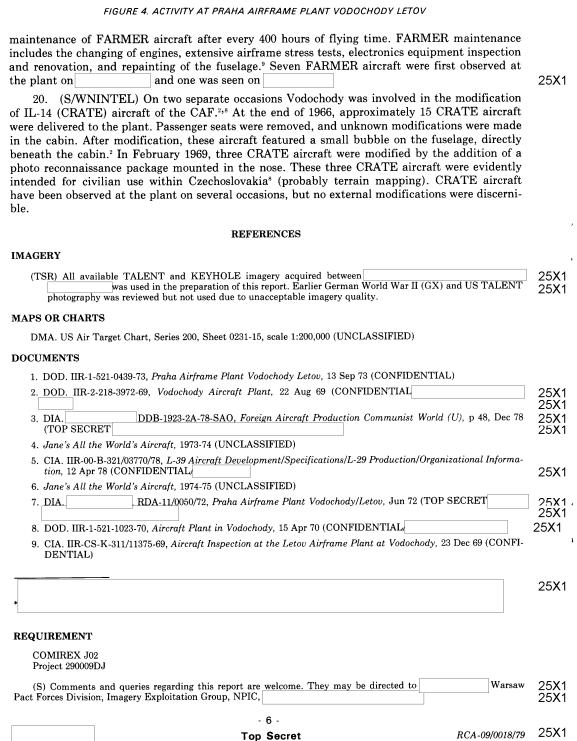
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